

Report on 1992 Survey Conducted by Russian Research
Vessel *Professor Levanidov* and Proposed Cruise
Plans for 1994

by

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1992

"Professor Levanidov"

The main objective of the cruise was to estimate pink salmon winter concentration abundance by trawl-acoustic survey. Region of survey: from 39°00 N to 45°00 N, and from 148°00 E to 166°00 E. Period: March 5 - April 13, 1992. There were conducted 107 hydrology stations, 59 hydrobiology station, 81-trawl catches. There were caught 3,290 salmonids (3,048 pink, 101 chum, 137 sockeye, 4 chinook). 1,141 of them were analyzed, 951 were measured, 203 were investigated for parasitology. The report contains meteorology conditions at the cruise, characteristic of water dynamic, peculiarity horizontal and vertical Vermohalin characteristics, water currents scheme, which was made by using boppler gear. The collection of hydrobiology data were made by Gedyisnet net on the levels from 100 to 0 m.

The acoustic surveys were conducted by Simrads system during the cruise. Salmonids were caught by pelagic trawl operations on standard transects placed from 30 to 40 miles one from other. The hauls were made at a depth from 20 to 50 m during daylight, and on the depth from 0 to 10 m at night. The abundance of pink in observed area was 95.3 mln specimens. This amount was the largest in the last four odd years. The distribution of pink in 1992 was somewhat different from previous years. The southern limit of distribution was situated more north than usual.

Ref. publication is available at the Secretariat (In Russian).

Proposed Cruise Plans of Russian Vessels to Carry Out Pacific Salmon Research in North Pacific in 1994

Vessel	Period	Survey Area	Research Objects	Gear Equipped
RS-300	June 1 - August 15	S.W. Bering Sea	Abundance and mortality juvenile	Beach seine Townet Purse seine
ST-1320	August 25 - October 15	S.W. Bering Sea	Abundance juveniles	Trawl
ST-1320	September 1 - October 20	Okhotsk Sea	Abundance juveniles	Trawl
SRTM-800 (2 ships)	June - July	W. Bering Sea	Stocks abundance	Gillnet
SRTM-800	June - July	Okhotsk Sea	Stocks abundance	Gillnet
SRTM-800	June - July	North Kuril Islands	Stocks abundance	Gillnet
SRTM-800*	April - June	Central North Pacific Bering Sea	Tagging	Purse seine
MRS-80	May - July	Sakhalin Gulf	Abundance juveniles	Trawl

*In the cooperative USA-Russia financial support.